



PTO/SB/08A (08-03)

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unless it contains a valid
OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
Sheet	1	of	-11	Application Number	10/709,676
				Filing Date	May 21, 2004
				First Named Inventor	SARKAR, Sujit
				Art Unit	3746
				Examiner Name	Not known
				Attorney Docket Number	47466-8

U.S. PATENT DOCUMENTS

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2,3} (known)			
JKW		US-4,008,041	Feb. 15, 1977	Roffe et al.	
JKW		US-4,140,473	Feb. 20, 1979	Hoehling et al.	
JKW		US-4,140,472	Feb. 20, 1979	Hoehling et al.	
JKW		US-4,289,475	Sept. 15, 1981	Wall et al.	
JKW		US-4,302,177	Nov. 24, 1981	Fankhanel et al.	
JKW		US-2,685,866	Aug. 10, 1954	O.A. Yost	
JKW		US-3,357,407	Dec. 12, 1967	J.P. Fanaritis	
JKW		US-3,052,223	Sept. 4, 1962	P. Profos	
JKW		US-4,109,613	Aug. 29, 1978	Hayden et al.	
JKW		US-3,017,870	Jan. 23, 1962	P. Profos	
JKW		US-5,979,549	Nov. 9, 1999	Meeks	
JKW		US-6,129,148	Oct. 10, 2000	Meeks	
JKW		US-1,150,948	Aug. 24, 1915	V. Laziny	
JKW		US-722,466	Mar. 10, 1903	J.W. Sutton	
JKW		US-715,842	Dec. 16, 1902	R. McKay	
JKW		US-603,502	May 3, 1898	C.H. Fox	
JKW		US-451,245	Apr. 28, 1891	H. Hyde	
JKW		US-355,178	Dec. 28, 1886	W. A. Kirby	
JKW		US-135,996	Feb. 18, 1873	P.J. McMahon	

FOREIGN PATENT DOCUMENTS

Examiner Signature	Gregory A. Wilson	Date Considered	6/22/05
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***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For the Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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Sheet	2	of	11	Attorney Docket Number	47466-8

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		Number-Kind Code ² (if known)			
SAW		US-75,296	Mar. 10, 1868	P. Quinn	
SAW		US-931,907	Aug. 24, 1909	C. Wegener	
SAW		US-301,092	July 1, 1884	S.N. Carvalho	
SAW		US-1,421,902	July 4, 1922	J.H. Brown	
SAW		US-1,775,962	Sept. 16, 1930	T. Love	
SAW		US-1,980,424	Nov. 13, 1934	L.F. Morgan	
SAW		US-2,020,686	Nov. 12, 1935	P.W. Kaiser	
SAW		US-2,207,654	July 9, 1940	J.H. Brown	
SAW		US-2,291,872	Aug. 4, 1942	J.E. Brantly	
SAW		US-2,304,409	Dec. 8, 1942	L.W. Jeffords	
SAW		US-2,312,622	Mar. 2, 1943	J.E. Brantly	
SAW		US-3,267,912	Aug. 23, 1966	F. Läubli	
US-					

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			

Examiner Signature	<i>Gregory A. Wilson</i>	Date Considered	6/22/05
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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/709,676
Sheet	3	of	11	Filing Date	May 21, 2004
				First Named Inventor	Sarkar, Sujit K.
				Art Unit	3746
				Examiner Name	Unknown
				Attorney Docket Number	47466-8

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		Number-Kind Code ² (if known)	MM-DD-YYYY		
SLW		US-6,481,641	11-19-2002	Mienby	
SLW		US-6,481,207	11-19-2002	Miura, et al.	
SLW		US-6,475,409	11-05-2002	Iijima, et al.	
SLW		US-6,190,628	02-20-2001	Carter	
SLW		US-6,210,150	04-03-2001	Rosen, et al.	
SLW		US-5,293,842	03-15-1994	Loesel	
SLW		US-6,523,348	02-25-2003	Acharya, et al.	
SLW		US-2002/0152681	10-24-2004	Oh et al.	
SLW		US-2003/0035766	02-20-2003	Baca et al.	ONLY PORTIONS OF THESE US DOCUMENTS
SLW		US-2002/0002819	01-10-2002	Gorman et al.	ARE ENCLOSED, AS
SLW		US-2003/0037534	02-27-2003	Sugishita et al.	ONLY THESE PORTIONS
SLW		US-2003/0024488	02-06-2003	Bingham et al.	ARE THOSE OF WHICH
SLW		US-2003/0017428	01-23-2003	Reiner, et al.	THE APPLICANT IS
SLW		US-2002/0157618	10-31-2002	Franke et al.	BELIEVED TO BE
SLW		US-2002/0017100	02-14-2002	Berndt, et al.	AWARE
SLW		US-2003/0015321	01-23-2003	Lim, et al.	
SLW		US-2003/0000220	01-02-2003	Liebig, et al.	
		US-			
		US-			

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		Application Number	10/709,676	
		Filing Date	May 21, 2004	
		First Named Inventor	Sarkar, Sujit K.	
		Art Unit	3746	
		Examiner Name	Unknown	
Sheet	4	11	Attorney Docket Number	47466-8

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
gaw	/	Portion of CA 1,273,856; Published September 11, 1990; Zorxit	
	/	Portion of CA 1,128,386; Published July 27, 1982; Viessmann	
	/	Portion of CA 1,252,352; Published April 11, 1989; Krans, et al.	
	/	Portion of CA 2,024,816; Published April 18, 1991; Albrecht	
	/	Portion of CA 1,123,287; Published May 11, 1982; Livingstone	
	/	Portion of CA 1,166,532; Published May 1, 1984; Styslinger	
	/	Portion of CA 2,082,502; Published October 29, 1992; Balint, et al.	
	/	Portion of CA 2,089,612; Published April 17, 1994; Moscone	
	/	Portion of CA 2,314,844; Published February 2, 2001; Tanaka, et al.	
	/	Portion of CA 1,259,537; Published September 19, 1989; Buice	
↓	/	Portion of CA 2,211,983; Published August 28, 1998; Watanabe, et al.	

Examiner Signature	Gregory A. Wilson	Date Considered	6/22/05
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Sheet 5		11	Attorney Docket Number	47466-8

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gsw	/	Portion of CA 2,094,205; Published October 18, 1993; Nagato, et al.	
	/	Portion of CA 1,099,161; Published April 14, 1981; Jehn, et al.	
	/	Portion of CA 1,080,053; Published June 24, 1980; Michel	
	/	Portion of CA 2,157,221; Published March 9, 1996; Phelps	
	/	Portion of CA 1,170,175; Published July 3, 1984; Sperry, et al.	
	/	Portion of CA 1,260,341; Published September 26, 1989; Paquet	
	/	Portion of CA 1,201,026; Published February 25, 1986; Rees	
	/	Portion of CA 1,129,276; Published August 10, 1982; Angelini	
	/	Portion of CA 2,049,815; Published February 28, 1992; Budin, et al.	
	/	Portion of CA 1,156,886; Published November 15, 1983; Beckett	
	/	Portion of CA 1,050,839; Published March 20, 1979; Woodmansee, et al.	

Examiner Signature	<i>Gregory A. Bullock</i>	Date Considered	6/22/05
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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
SAW		Portion of CA 653,200; Published November 27, 1962; Alick, et al.	
		Portion of CA 2,006,576; Published June 22, 1990; Miura, et al.	
		Portion of CA 1,313,088; Published January 26, 1993; Campbell, et al.	
		Portion of CA 1,318,196; Published May 25, 1993; Abduly	
		Portion of CA 1,329,323; Published May 10, 1994; Ziemianek	
		Portion of CA 2,058,161; Published June 22, 1992; Hulkkonen, et al.	
		Portion of CA 2,060,375; Published August 1, 1992; Solty, et al.	
		Portion of CA 2,102,835; Published May 14, 1994; Dietz	
		Portion of CA 2,124,432; Published January 7, 1995; Tang	
		Portion of CA 2,163,172; Published June 8, 1996; Campbell, et al.	
		Portion of CA 2,186,369; Published October 19, 1995; Hiltunen, et al.	

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<i>gaw</i>		Portion of CA 2,239,391; Published July 2, 1998; Garcia-Mallol	
		Portion of CA 2,383,586; Published March 8, 2001; Worman	
		Portion of CA 525,170; Published May 15, 1956; Alick	
		Portion of CA 561,863; Published August 12, 1958; Alick	
		Portion of CA 788,269; Published June 25, 1968; Fanaritis	
		Portion of CA 1,196,344; Published November 5, 1985; McCallister	
		Portion of CA 1,261,630; Published September 26, 1989; Spangler, et al.	
		Portion of CA 2,096,011; Published May 28, 1992; Corbett, et al.	
		Portion of CA 2,026,455; Published April 4, 1991; Tokuda, et al.	
		Portion of CA 1,133,773; Published October 19, 1982; Bernstein	
		Portion of CA 1,163,919; Published March 20, 1984; Meeks, et al.	

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gaw		Portion of CA 2,372,547; Published November 9, 2000; Hagan, et al.	
		Portion of CA 1,215,230; Published December 16, 1986; Osman	
		Portion of CA 1,285,899; Published July 9, 1991; Fuderer	
		Portion of CA 2,389,444; Published January 18, 2003; Cargel, et al.	
		Portion of CA 1,235,610; Published April 26, 1988; Downs, et al.	
		Portion of CA 2,105,166; Published October 1, 1992; Valentine	
		Portion of CA 2,373,456; Published October 26, 2002; Tsirulnikov, et al.	
		Portion of CA 2,394,202; Published June 21, 2001; Henkel, et al.	
		Portion of CA 1,166,531; Published May 1, 1984; Rodwell	
		Portion of CA 315,507; Published September 22, 1931; Barnes	
		Portion of CA 325,131; Published August 16, 1932; Lucke	

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		Examiner Name	Unknown	
Sheet	9	11	Attorney Docket Number	47466-8

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²	
<i>gab</i>		Portion of CA 325,287; Published August 23, 1932; Lucke		
		Portion of CA 326,507; Published October 4, 1932; Jones		
		Portion of CA 342,249; Published June 12, 1934; Jacobus, et al.		
		Portion of CA 345,165; Published October 9, 1934; Howard, et al.		
		Portion of CA 355,745; Published February 4, 1936; Schmidt		
		Portion of CA 505,241; Published August 17, 1954; Clarkson		
		Portion of CA 611,339; Published December 27, 1960; Theodore		
		Portion of CA 840,746; Published May 5, 1970; Vorkauf		
		Portion of CA 893,491; Published February 22, 1972; Ruhe		
		Portion of CA 1,041,079; Published October 24, 1978; Hapgood		
<i>✓</i>		Portion of CA 1,041,080; Published October 24, 1978; Hapgood		

Examiner Signature	<i>Gregory A. Wilson</i>	Date Considered	6/22/05
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete If Known		
		Application Number	10/709,676	
		Filing Date	May 21, 2004	
		First Named Inventor	Sarkar, Sujit K.	
		Art Unit	3746	
		Examiner Name	Unknown	
Sheet	10	11	Attorney Docket Number	47466-8

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
<i>SJW</i>		Portion of CA 1,041,081; Published October 24, 1978; Hapgood	
		Portion of CA 1,042,291; Published November 14, 1978; Gibson	
		Portion of CA 1,062,976; Published September 25, 1979; Viessmann	
		Portion of CA 1,088,823; Published November 4, 1980; Regamey	
		Portion of CA 1,091,108; Published December 9, 1980; Siegrist	
		Portion of CA 1,095,347; Published February 10, 1981; Freund	
		Portion of CA 1,125,115; Published June 8, 1982; Shenker	
		Portion of CA 1,238,539; Published June 28, 1988; Dragojevic	
		Portion of CA 1,067,484; Published December 4, 1979; Smith	
		Portion of CA 1,127,143; Published July 6, 1982; Kubo, et al.	
		Portion of CA 1,268,999; Published May 15, 1990; Elmlund	

Examiner Signature	<i>Theagy A. Wilson</i>	Date Considered	6/22/05
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gsw		Portion of CA 1,265,713; Published February 13, 1990; Cooke	
gsw		Portion of CA 2,094,882; Published October 29, 1993; Pascal	
gsw		Portion of CA 788,269; Published June 25, 1968; Fanaritis	
gsw		Portion of CA 2,187,201; Published April 25, 1996; Rice	
gsw		Portion of CA 1,170,174; Published July 3, 1984, Fox	
gsw		Portion of CA 2,033,988; Published December 27, 1990, Fullerman	
gsw		Design aspects of once through systems for heat recovery steam generators for base load and cyclic operation; Brady; Materials at High Temperatures 18(4) 223-229 © 2001 Science Reviews.	

Examiner Signature	<i>Gregory A. Wilson</i>	Date Considered	6/22/05
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